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Levin V. in. Panholo

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(Dec. 25, 1959 -- 2007 6, 1950 ) The second of the second secon F11ght /erra-Largoy.....22-37 12265 121 Jagos-10ad I ......... Picing Dishered Tighters and access and access and access TO THE PROPERTY OF THE STATE OF THE Mil Stat on, as of Jos AU(38...... ..... telp los-Monou plains........ on plateau, s. of fee Honey Deleas Mederas. Without The Lot Vancous HALL SEILERS, S. O. LO AND SANARASANA c. of telus, w. of telust 10.50-40757 TITABLE ARREST CONTRACTOR OF THE SERVER STATE OF THE SERVER SERVE

word word your sweet reward. J.R. Fosberg

## Field and Collection Note Book

### No. 56

# (Oct. 28, 1959 -- May 8, 1960)

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1959 I vory Coast In the evactal area The most intensing agriculture is in the bottom lands at the mouth of streams, as at mouth of Banks R. gardening on hilled-up black wet soil. Banana plantations also, especially in These The reddish from sands that make up the tenace are extremely deep cuti 19 m. deep show nothing but simpon sand, not visibly bedded, but with vertical and slanting cracks origin of which is obscure some but not much slumping even where cuts are almost vertical, Roads in this sandy area, where not asphalt, are surfaced with red lateritic gravel-sand mixture or broken of parts very firmly, perhaps hardens some

No vultures seen in Joan Gast. Veryfer magnitoes anywhere at least at this season.

of beach ridges lagon much frest This ends at first villages numbrous on siver, which is black beach ridge, very aderly water a canal enter in appearance. a black water lagran. layour west of river, also 12:04 Eastward considerable black water. 11:56 savarnas jud back Part of the stream a winding of beach ridge, still drannel to motheast back many villager and poly of beach ridge extension flantations on beach ridge. thicket and mamp. Come a but more away with small black 12:08 from leach. Savannas water lagront near Jewer. Villager fewer, one beach, lærger muddy or two inland. Some clearing here, Vegetation generally q expecially on beach ridge morain of mult cleaning, abandones and around lagons, but stages of regrowth, greater part of land between beach and main lagons worded, Floating grass and somewhat larger Entimes eartward to along estates of lagons Ereal white hand patches where court Turns somewhat with soul near bearly youthward Exertialis near ridge between black water 1:13 axin, Grands and lagum. Rather for inland much of beach ridge 12:15 11:54 much broken cloudiness land cleared and planted fort much grad frest, few cleaning, to young coconut. Back or this randy land probably fine cleaning along savannas. Frest back 17:17 words, but generally good frest so Jan as of they lagon. Variation casterany a large cleaning with of this pattern, but no

1959 Thang inland. Then a morain an establishinent in of cultivation, grass. serter, apparently a frest, this extending Lugar plantation, with father and father inland. cleaning operations in 1235 Blange city. Hen grany to thinky progress in eastern bat. around this espenally frested or sand overty southof it, a morain back of beach. of cleaning, regrowth, an important road and frest mosais paralleling court, villager continues eastward. a small town, between Jelsindi-Taknadi, 12.22 it and was foil orange red, Mosain of cultivations and frest extending the morain here is mythy cleaning and fred Many village. inland, Ann roads gring inland mpressim with ralles 12:39 ort runge red. I wo for visibility, inthat fairly extensing lowns there is more thicket of on my eastward fred than clearing. pointing books of eval. Extensive ravanna Coast curpate a eastward 12:40 Little front. This custor fromting eastward. extendi eastward, forme Considerable savanna 12:25 aultivation but locally. filly its cleared, perhaps. areas of served on 12:41 thin frett. Some cultivation Large villages on coast. along roads. We'are out over seg. Cloudy Country become inne inland 12:43 cultivates, but still 12:30 On right omsiderable savana changing inland & cleaning any with much servel and savanna, Nore serub 17:31 Rather extensive savanne and remb-freet eastward. berning almost continuous thin frest, but with a few patches extending more.

favanna mit conspringer savannas, green dearings. drie eastward but anextensive savanna. mo course moraway 1245 from land. sprobably the acera 12:55 but with savanno Plain ( widely strased tufts of serul - said by Mye to be on terms areas back of it. 1256 Wen savanna and dead termite mounds), matrix green, becoming lagrons and ban along coard. paler eastward, with fremming towning geen

prices month with

considerable system of forme very rectangular plantation, much burned cleared land, much savanna and lagron and sand flats entiration morain. and bar. Farge City surrounded and var. 12:48 by savanna - cultivation Then extensive savanna. morais. Cicera an extensive city not at all conqueted. Patches Many villages. 17:49 Gallery frest, open gran, of savanna, largely cultivated, extending Thin front or semp. . into it. Plenty of trees moven; brally cleaned, in town, but not generally freally more tense. green - trees reallined, more cleared eastward, soil red East of Town extensive another small city eruned but searchy cultivated. I outless 12:51 Extensive savanuas. Rather towny in color. the termite savanna Gallery frest. mentioned by Tye. grass bene closed drowning gran. sell this a strip along mast frest inland Trees and frush alumps abundant.

This is a nother oly arently because of curvature of court which produces a sort of rain shadow.

Elseuphorbia juliflog

Elseuphorbia juliflog is a very common tree here, starting especially on termitaries. It looks just like Hura crepitans, superficially.

Prof. Sansone, head of Univ. Coll. Botany Dept Coleur scutellarioides Caladium bisola. Commoned gld, aeanth) alternanthera versicola Exthaunthy rosen Tilea minophylla Khres spathacea Calotrofis Celosia angentea Cynoden daetylen Gaillandin pulchella Hibiseus rosa sinensis Satropha gossypifolia Brownes Calsalpinia pudcherma Carica papaya Lolanum lycopersicum Rosa sp. Jatropha multipida Lagarstroemia indica

Oct. 28 - acera - airport Eightivated plants seen. Parkinsonia aculenta Delonix regia Hibiscus nosa-sinensis & schigopetalus A Codiaeum vanegalum Johnson globosa ageter (several forms) Zelfrina pendula Zingia elegan. Petunia Bougainvilles sp. Polysias quilfoylei anderachta indica Chasia spectabilis Mangifer inding Infration, balsamag Kalanchoe finnata Congradido carpos lutercons Salvia grahami? Canna Imamental hybrids) Carvaring equisetifolia ageratum houstonianum · Carria fistula hunbergia grandiflore Thunbergia alata (large white) Ilcemeria rulia Spathodes campanulata Glenn sp. Teema stans Cila pentandra Duranta repens Theretia periviana Lindenia angustifolia

Weeds Enphabis prostrata Portulaca lutea Henring inding Chlorisinglata Sida aruta Triday prombens Boerhavia diffusa ( red ff.) Wactylotenium agyptium Malvaatrum cromandeliaming Euphorbia heterophyela alternanthers (pungent one) Portulaca quadrifida? Panieum maximum Talinum Phyllanthus Cyperus cyperinus? Inphobia thymitalia! Dermodium triploum Vennisetum ep. Mimora sp. Gragnostis amabilis Hedystis conjulosus Englisher hints Cyperus notundus Clibrea terratea Sporobolus diander Commelina sp. (closed spatche, 2 large blue petal) Hyplis snaverlens Crotalara return. Cenchous echinatus or bounes Vernonia cinera Tricholaena nosea Stachytapheta of garranensi

Cult plants (ctd.) Lawsonia inemis Pithesellobium dulce (Conthurium (large red spath) Hydranges japonica Chrysinthemum mufolium Monsten delision Pityogramma calomelanos manihot excelenta Hornora batatas Hibiscus esculentus Cealypha hispida acalypha godseffiana? Spordias of large round fruit) allamanda catharling o cethatic Baulinia of (5 stamens, long calystales) (Juguacum officinalo? (blu fl.) eltophorim ferrigineum Cray istic colcais Lesomum indicum anachis hypogaea Jes may Leroverna glavea Lectory grandis Cerba flewlandha Terminalia catallio Cous mureifera albiggia Rebbeh Hura crefitans lamarindus indices. arcardium occidentale Solamum melongena Cordia sebasting 1?

Photos (1-970)

Oct. 29 - aura aupot Gently sloping ranon with tall Hyparchenia (?) to 3 m. scattered shows and tufts of small trees and shrubs, these tufts marling old termitaries. mostly with a large Claeophobia, some agadinalita should, something like an allophylus, and several other shrubs. atches of a lower gran resembling Cterrum. Open patches of a low ('m.) string acaria (?) - Loil from to rod hour, fine and light to rather heavy and full of buck-shot scattered patches of from manive, Capricum. sweet potatoes, obra, etc.

termitaries, to 3 m. a few plants established on one. When a piece was broken off, exposing galleries, were seen at first. Then large soldiers with enamous. brown heads began to come forth and to men blindly

over the surfag of the hill, many falling to the ground and running around on the ground, snapping their mandibles hom after worker appeared and began to deposit mud, and in a few minutes some of the smaller hoter were walled over and walls were being built over many of the large me. Many soldiers caught in spide webs on outside of hill webs on outside of hill minute, for soldiers to appear.

weeds observed (eta from p. 12)
Tribulus cistridos
Genefhiena
Emilia sonchifolia
Eragostis cilianis
Lantana camana
Passiflina foetida
Cassytha filiformis
Abutilon indieum?
Schwenkia arnerirana

1959 Irang 16 Oct. 29 - accra aurport weedy ground along justes 40723 Hedystis cerymorans (4.) common 24 yorganina mmmm 15 Emilia sometrifolia (L.) Dr. occasional in cultivated places and around building. Vo Afragelia common in cultivated place 27 Clenum! Vo forming patcherin somme. rave in cultivated place, 29 Hedgotes common on W Cennisetum common weed around dwelling

prostrate, flowers white

prostrate to ascending,

heads white

leaver glaveous,

flowers purple.

flowers pale levende.

taytes

branched of Das.

erect.

loose tufts slightly

spreading whome, culture

221

1959 ghana Ost 30 - sama airfrag all grass savanna below disport to s. iv. Leveral specie of bushes and small trees are commanazedinachta undica Bridelia sp. ? grewia sp. ? yellow fl. to ser from fanthoxylun Croton on Mallotin 2 My Capparis sp. Codia of. 1. Executh (bills red fl.) several other the termitaries are built right around living bushes which buppen to be in the way or to have a branch in The way. The soldie termiles that come out and swam over the store of the hilly when a prece is broken off may apparently either go back in a fall to the ground. after 9 shot time on the ground, running about they die, at least when in the sun The termitaries are mostly a dull red (occasionally shown), so hard that eloy can search be broken by the first.

a cordia-like plant but with les in whole of 4, cywod panieles. a heavy-nerved plant with dense axillary faciles of sessile Its. a perocionsly spring Doryalis or something of the zort. a tall Walthering a fretid compound - led. stender shrub with apracion fruits Verminasp. (shoul white Ils in panacles, yellow fraffin. adiverse lot of vines tangling the shows into Wichets wherever they an close tryether. the grass is dense in places, ofen in other. Where open the ground is usually eroded til de suface u a gravelly man of concretions and quartz fragments. Claerphobin is a thick stubby the with a dense rounded crown of cered

branches with lange

fleshy obovate greeky

leaves.

at the trottom of this long gentle slope is a ditch about 2 n deep, down through a ned brown silt soil filled with fine gravel, to for or den grayish from. Then the rather uniform red from material differing locally in redness and in amount of gravel. die or a swarped light orland phyllitic shirt with greats and light

In manihot patches is a population of Euphorbia (Poinsettia) showing every leaf shape from namowly linear to broadly elliptic, crate according a obrate, entire to deeply lobed. Mo color at bon of Top los.

Theo seem to be no witha white court anon the breast and white head are frainly common.

below airport in suranna.

Ort. 31. acera Hodger of Theretia fremmany azedirachta, Spendras Dolonic Mangifera, Cassia spectabilis (or siamon), Pithecellobuern dulci, are the common street trees.

Hibeson, and Bougainville generally common. a few codonits in dountour area. a few Cosmanine. Evernit, show on the damage.

the city is very ofen and spread out. even the doundorn area is scarcely conquited. Trees are frainly abundant except in the central business district.

Harbor on open roadstrad anchorage close in.

"Old tour" around evouded with one stry shacks. Indewalks Mahet everywhere.

Christiansburg castlebuilt in 1790 by Danes ar conten for slave Trade. Walls 2 m. on so thick, Undows heavily branes in slave quarters. Subsequently used as frome of governor-general, Added & in 1950. Now being renovated for sime Minutes. Thespesia in coattle evelosure. Creonest groves near castle.

Flat savanna between

Christiansburg and airport

for sinland from airfut

Left ground at 3:58 pm.

Vel. 31 - flight acrea to Lagor

bright red where bulldozed.

Landing field large,

asphalted, being enlarged.

Last from Lagriz is a

towns scattered along coast.

Savanna looks badly

overgrazed, with burned

patches, ne fir actually

tidal inlets along coast.

coast al towns, Between

in propos, hereral,

vast area of savanna,

with several small

at left side of flan)

4:09

1999 ghana

guotor

ghana - 7000 - 25 mayer. Luroundel of narrow bar scharating by extensive the lagron from sea is a slight tidal march. some shard development of mangras patches of dry sand serul. with savannam Counts along coast on seaward side. bar to earl. Eastern puts Keta. Coastal bar 4:30 of slagon change to whom bounding lagoon swing northeast here. The bar avicening (?) then to extensive marches. There alternate is wide mostly covered with savanna on sandy by the town Town appears parches extensive network worded, as does the bar and oftidal channels. They beach ridge to molleast. a large estuary with islands, very marshy, beach ridge is worded, swampy areas with then a stry of savanna halms and some other trees and lagrons, then a strip esp. a light green one like of freet, and, unland, a willow extensive savanna. gad of this winding The inner front strip almost channels and strips of march and protos pinches out, and the coastal on broadens. We are so far at sea now savanna, open swamp, 15.30 that visibility is from. dry savanna. favanna strip pinches 4:23 Extensive mixture of out. A fair night town tiday marsh and swamp. Dean naflao? a probably Komé with little dry ground. East of this a brad This seems to have artifiered wooded belt along coast, channels or paths in it. inside this green grassland, with water in them. a narrow strif, with west side of an extension 4:25 open frest or dense savanna lagun system, with latt gran in reed bales a large lagour inland, but around many of its inticate visibility how too from.

Danney 1959 Jogs - Dahoney 26area between lagon I ar is densely worded but hand & tell if Eng and sea seems worded. mangroves or internits, a large channel from the Lagron ectand earl to from this distance Very land land on 4.5 % a tidal inlet and a broad many wine by from. estrary inland. egen entimes sastward, East of this the country 4:55 now quite conficialed. seems mu worded -I'm had, evered in 4:17 a morain of word and counts. savanna. Visibility from. much bother cloudiness. Mangiorer along channels of estuary? Piver with namon estuary. Ensiderable mangrove around lagram. Misture of swamp and march The rivers on this court have their mouths inland. fagra quite news, 5:02 dellected sastward. but still with marshis · Considerable manque venirait. at mouth of this me. apparently country a nama lagron believe it is largely marallering was for wooded, some savanna a considerable distance Behind Ragran. now very eastward. Han seems narrow, with mangrers, rather continuous soit is a moscure of varanna, ing hand is tell gurt where marsh and frest transit the over mouth is several A sontations, server and other woers also enter this parture on bar. 4:54 lagoon, which continues hagon is now may 9 5.05 eastward, with some narrow channel and substantial areas of with mangrove, Then ends. mangrove or perhaps Some bits of march. 5:00 fund water arrange, much Then inland a very cut by other water channels large lagoon, separales drea maland seems mostly 415 6 from sea by mosaic of marsh or well savanna.

nigeria Villages along coad. quarround front ( swamp?). am of layoun, lines Cotonon. Large lagon In was marcher back fit annected with untitidal channels, sea of broad channel Curves nearer sea. fagron surgunded by and inland a morning mark and mangrove. of frest and savanna East of town much white gridminantly frest sand gorth ofen send becoming more so earlivard. parties of this attending swordager unland, with swamp and, eastered Frest is derninantly with palm (corrent?) racis, some patches wantation. material front fange areas of marsh, another beach water none white sand wound lagon, inland. The vi cagom. ann a channel from strother area of sand Conto novo now close o but lagum become a post tido march. The track water layon land form what extends for unland. appear to be beachinger The other one parallely slanting a bit awar for com separated on marche Course is mow well and swampy. inland. wuntry q alange area of mars moraico for pary with manging then march. and tranana patiles then then water inland. with & Smal strike Porto novo inland of semi-decidures fred, large swamps and a will forme cultivates land. ann of lagron which Strip of layour still words eastward between continues along wast, marsher and many my Jecoming man complicated swamps. fearer Inland a mosais of and areas of servi patches of cultivation, gallery freit, and marsh.

Mayaria 30 Mary - Helya Lager regrowth and oil Cycling Cly place to de. fraun, in apparently Promoter medica cutera realing to strip ica - med from the desired of forest perfundacion person of to crant This more and a comment a lepton more inequitor. Contract of the Sometrees in frances ( to be a start for the same of the same o epparently in flow . Lange Assert Commission Through Success Ithen lave. - Andrew Tables of the American American Strips of swamp winding Lendritically Taken planting Marine Street and Street and Street interior, seem to the same and the proquite bar. 4-76-- Y -- Y mostly onest but Lagrana Caracalla Caracalla nother degraded. X de la la servicio de la compaction de Patele of what must le muanamanned, and the properties. ralmo and bamboo, All a great of a albertice as my approach Lagon Andrew Marie Vilages umanhably ald leaving the color Villeland march of the cleanny ar few. War willed a lance Frest rather good, but 5:30 The garden with Lots of tralma (Elieis). right of wall beauty seven concrete nows 5.31 Commence of the commence going mostly. Funge clearing Assertation of the Committee of the We circle to night over outstirts of Largos. and the same and the same and the I frem words, thrienet Porder seventera and cultivated patches. in Trearded of lile Very green. Mary James 1984

stimules of Octomix regi ber description!



32

Federates in motories

free waters with a celebrate " wid test or the proximal more you sorth come. on the Commence of the Sale man - welling are from on markety have yellowed in the second Toplacy on The morning grade Was Lasted and the said of the said their air granilar to there experienter Missione The procession TOREST HOLDS ALDERS HE THEN ASTERNA and the second compared, with o much enteredly five prome of anneate to us allow while consultate to exceed to be accounted primariles physical Commerce a man of good welling of water box - completely to a long latting army well - lightly or conveniency much nachin 76. Suntal and promound to a series of the series of t aper in invally subulate tout may ranchy to exprended and almita & a primarile that they presty may government out of the mentalluiding the materia in and of Their mentioned arms made (miser, at the toward) water freeze of freeze and

a find a ment party were engine for a Cylindrian and an arm of time description are in -y advert from the As a second of the second 2.01 does to the manufacture of the second minute entensis yer we A second There is the state of the the conduction with the the state of the s 1 - a - Ayend action y or at most me work that were on motoria to to ly

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36		31
foldingen Harris - Language & Language	2	
11/7-11 Had yet in engelower		
St. V. Denni Characteria		constant
33 Services		

The the till the time The fall there every - marky .... thinkly medical and the graphics in section, and pore degranded digt bold. Control of mentioned and in the for expecially promited. Hallens Tell truly of a surprise officer an easy theory would the placed in the second second second there was to be will in monthly abundant. thetet serms & things to detually does one now we stripe, of theshop along the word may portables and caredo plantation. and the state and I was to get a land of any and a new yell-- I - I see to the second of t Teacher of Europe the second of the second of the second are of energy DEALERING SECTION and the second territory and the second Vice Tolkin Grant -31 PM = 1 V/1 the prior the second transfer of the second Gyman Harden Harley Little promise the flat I stopped you house perference Hydronican Laver Jefferger Or operation with the second Eddlum Ferry Dillower the service Reading fellow Amphilia Elinicidia sepirem Hibiseus mitabilis Dahlia variabilis Lamanea ramas

Sida acrita
Lida rhoribifolia
Calpfognium mucunoide
Anneddella modifina

Cultivated species (dd.)

cassia siamea

Cassia spectabilis

Cassia of roodosa

Cassia of roodosa

Cantignos lefitopus

Yanthoroma violacia?

Pantana camara van aculenta

Tamarindus indicus

Capircum frutereen

nova-) di anyine 12-13 mi s. of I badan girmban Frest. Ving - was ignored and I welrytegin surry come men common, and Every danie olia + terocarpus sentolinoides, Vapora hendelotic (state out). Recendending, -Back from the river reathered no liet to live and a lens truck climber and simily and safeings. The salvings, frowing wh, lift the canoty of climber leaving ofren skare fetween the stems of the saplings. Cast of here a large frest very megular, with considerable number of tall trees, megular this intermediate and love stry, thick vines on ground. The intermediate theer were largely nervoved for firewood Ima factory and power plant. Much climber removal dias been done her, also, recently but reprowth is fast. Pittle regeneration seen.

is a tall bluis grass, to 3 m. or more, common to dominant in the savanna around I badan. Pennisatum purpureum is the other abundant species. They als not grow in an intimate mixture but in tratches.

Old field outside Waden at Lafrie Rest House inegular offen semile of glinicidia mostly about 4 m, tal, tangled with for tarricum melainum and wines ruch as Chitorea, also Pennisetum polyslachyma? + Imperata: lennisetum propurem Called elephant grass, though, Onochi has mere heard of elephants eating it) is coarse, erect, to 4 (n5) m. tall branched loosely toward long perhaps rom, thick, on long pedunder, exserted above the top reduced blade about 7-10 cm. Habit not tangled P, lader and shotelly meating modes with a may of stiff butles.

50 . . . There -(Herry) Tree & Societies - Marie months during the second man all the many . M Suit of the desire the suite of - abrems with their ----patches of pretty good 11 1 1 1 has the last marine annexus is granite experience particles, since a livery 1000 and freeze - servery the sound a friend, and a new moley har re The first attorner and the second of the The state of the second of the a le meste muste march Later min with galley forest in the grant of a small Silver of the survey of the second of the second Lange of Market States and the August 18 Carlot Committee market with with conternety fratching 1017-7 147 3 1-11-2 18 - 6 166-17/11/11 I have given to have fair and Line I willing tory 18-77 worked in the words andle presented, entrosten recorded parties in a much less freetman stuy dad year geneta willy guitan with many westly in shift in granis edynamic, The agriculture will patcher fred & savanor allunt. of freed mother rather my melling home ( shorten) with the degraded acuttered Grande tidlo beary very endoprenon light once La nofreezen from to 1 capring trees, nother abundant in boundale tections . come shares but not Across finish of songest in Especial your much with would estept for alight galley The many particular willing man de la fine of along the some formegranile salell world to the generally about time administration West of me from savanne & fresh prest and sugar the villager -cottered callinated patches 0 37 1. 120-lor.

1959 migeria 52 12 m Earl Feathered willials or it things frather of entire time Very Land way I to sent my state many with dent true after fourt on one and to to the First Cant Come Berther - Land den welly the metalogy the way become for the feathered amall warnets 1,1 -11 with the same of the auterops, not lance golden stope along steer follow fuller from some and and Alater Vall amore of the bout Helly with when the 1111 the small envisor our -Allen - Livery front - out Mirror of management of free alopar sevening a cattered freel cloud front in some sectionally pertelu and you when a square patche mand working to red. The little real and the transfer of along som grantestomer - transles established Halls in middle levene francis commen in solly but me grands. Then gallers fruit along Hillian egusson - - 16 event em well trees, marriage Dian Commence. As the Commence - the contraction of dimed and the a return en exist with factions with dentities forming granes. at the me the gallery ( photo) Close morace of many Expendence Sylvertel Lord of money is a second Then a closed frant and graftery willy when therein They berne Burnesser meghtered in open spice Rolling country, mostly and savening the telly marcalone, well parling hours in gathern. free to a service of the service of The cultivation of all - Discourse Manager Transport my for some distance and the demander. 15% Mostly open forest ranging dence to the with patients is caranno gallery yent closed To remember the Littley

136 9 Migeria 55 54 Inde and depressions wanter becomes helly 100 Harallefts neger and a free contained in about the to others of Manual Andrews Parent and the tenter of the tenter Janes La formation to the formation of t meandering for conference they in trained in the tropical 1/2 theneway thank more / feliators anite experies Correct Mayon Brother fred Anoma lens 11.112 dance to lighty marken some an about your Bosseman is feed there are to march, wire pronder, millery from the first continuency There edocapate in a 1000 channell spector was in La Livaril a morace of Panjal nothy brings on senson partition, fatilies of That rame apparently ofrents altred front, and inused, atte, stringly golden along frimited warring into a sounder plant good tright able parch of front out it green sultimation a fine 1000 greens to for blow a depression to malfatalised cleaning without be worned 2/en forest long orner entale of which it 10-60 reacher the Might in Landron with gelling the destance topicaling now were or traced perpendicularly the amore wently · exalered and front goldery day Miranelf la ge same dendritor atredia system. father of in according [1/2 6-162] fred peters and dever Lawrence Thicken to 10 40 all some all with a the state of market See forest . Arm consider

1959 nigeria 60 low granity during. in small grass (or a significant bad gently amalp non in the and slopes in the pateles, some word in This patch castric but not early form the desire the gr moderate and lowering with mattered law entile your experie month information. of the decessor to well and / Exercise and the contraction Gradient whom to work Locally, Lucie Galdie then another lange low bright yellow-yer done in the course, frank, miller to Carpe and of thing bereit in the of the sanking porter grante willing from and white the eacturand and myselined Enther ation or the Election Then sancesing - or hore - goldeng fourt .... appoint is not exposed. Meso granita patriles, something the first framing vir los tills. and Unibets - Home timy Korte - 25 Willef alexand to hite wet in free free on or women of the morthwest. I su will, too and so then i alnumin, ... the y and much sultiration. That to retting someone a little more interested the fire you the item galley continue come to be teleming more frest or work - youth of week-Man was survive about follow frenchy offer in took from the was. navaria. elization Greendering streams, sound Fin bull or went days. culturation. large hill, to for the second hill in ate marillandroad good. 1 (34 (2) - much alteration and gavanna Galler Goed only middle distance. wer shall by developed of at all Considerable parts of

nigeria 1959 duranna on many low considered early hilly sometry - the Music of Cultivation, exemple able that zone q harture. I very marrow grande or francisco ming he have Intheid Brancina 17000 why 4 a midge and them and well adarp en wolling cultivated land. Low bills with more ananche forme tout They a stream valley enough. Cutting curry war, they long grand tilly or times flatter and and Kather of granity tell overgrand their conty Creatly I small and patelon of dellevation chemps of Blown from apparently of soil rated up into senderous on site, abundant along beer grant week much less self a lange love granit till with the washing They welling over jung - Africk form faitly errow sean away enthireted and grante form was word. . It was becoming and they god with in more abundant. Extender patching 1/2 3 a very much, millery Myl farms and much fromish then the with the town on the angle from back, then intervaled land aline and rainey of : small very red mully and gully enough on Tive crossing course at - v Clary for year get bathy restit ander. Adding tranting faitly to broaded stream from celtivated the next body wearings and Fritty granite bills for win small grants morning foundled with expresence.

and the fitter will, and the fitter will, with the fitter will, and the fitter will be a fitter with the fitter will be a fitter wit

1999

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Nov. 3 - Hill Station, Jos.

Built on a grainite ridge evered by sucture gue boulders.

Randscaped, with abundant ormanentals Hedges of Dodonaca viscosa.

Ornamentals seem:
Dodonaea viscora

Pelargonium yonale
(Segonia (tall red, Even, slogue los)
Althaea (tolly hoch)
Pilea microfly la

Fieres pumila
Mangifera indica
Casalypha godseffiana

Pelrina pendula
Kalanchoe pinnata
Aalvia splenden,
Malvaviscus

Tagetes (several from)

66 1.1.1 - 102 There server the last y windy - I Tom wheel wo I'll Mange in the common and callergine Colo legions. he in the mountainst many fraction of the state of t in the Kents of the transmisself Bushing like cloud Kraul D. worth why whenes and I down agen Englis and to always Letter Home while butter is a more the state of the state of the state of In which were men in the the E STANT STAN THE GALLET ME LOUIS Loud, of home species to be a record Then present single contract and he age to find a few to the same of mante and other trees MI - world on a second patela of sometime. to grand on the dorse to more I will will water of much to he file teller ( & town of per 10 - green a some H. leoldert Lower to the least of Their Become search Virol of days cultivated a Vandad .... from fraction the worth - fray Illianis Soundary well busher delite from the soll will will be the in slung of the Ar Indian the first many poly Frank Will-with Com April -20- 4 6. merella baren tombered Descending gradually. Worl - word the same to the same - stylum stell will row fund Lenn he wanther principle tempitalis sides but still in a hor Toll, interest in the second of the Wary from them / .... Electrofic (a live form mind this. I gen will not be derive Compley Chatters out nt A. for mother was the first of the second dy - selengely (4 = 1 more = 1 The late one topoly common 1 19 m Toll long which haytes the reason of 1-0 THE RY CONTROL THE SELECTION - now in summer it is have in season

your y - Hill station with of for Bruldery grande wills will just the of strent same between the knowledge of years the flow minds legumed 05 - 1.5 m. tel. the grasse up to me In the energy butween the boulders on the broady mi many - - to to the esternally a whence touter al 37 1 2 4 m. Tall constitute the stage something lovered from the entering except in the middle The the load and tent is and. I a pare bright with the first I can long elliptic - this about the sand shade of buffer the should but apparently weetly me about to the right of the song hand it regment to other

to the set is the wester -to 1-9+

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NATURE CONSERVANCY

a society to preserve living museums

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## NATURE CONSERVANCY

a society to preserve living museums

Har all par 100 11.7 31122 - 3110 W the Rose 1-8ty Early at poullier March Street College

was - fell thatie would y for Bouldery granite biller in its partelles of about servery tetines, the know Jarande, the shorter actingly bloom mortin legreman 05 - 1.5 m. toll. If the a form the foretaking on the tradets and manifolder as the interest of supremetly is stemate a number alout a man tall was the Une stay, somewhat dove at from it. win. except in the muddle the boys a freed to me! they are bright would con wedne ton- free wind, at my remitery, Ellefolie in a thing word the emission of enfolger the stant Had all for the second of the second ment to send it was read to nothing willy a frestly walls -t. By polded very close end - de at the feet were grange, with custin distra The belly mind I forms western with accor When los remed it settled eling or many deared, well-end

and something the stand of the target to -- the part more or THE THE STATE OF T 2 Company of the Kill of the Colonia against the free of the or the willy break, done it by and the total The exercise to get demand the free folder Otofile alle in in a manufacture of the form the the field of and The factor of the When placed or a da to White of the there of stightly granger tot me Anniel & Lill Econ. formath it as mot able to transfer of the eyeles it was liquely Surther at treame more active by bing about and thoughting El sacrafu le l'en consiner us, the board of tried senter they will wrong - wit then a thet down and metaline to the glass of - alex drawn in tely ned and dedoct more.

I is a narrow frond Rittle Digging of it base Hindley grilled some had tuberous whire me, pulsage 5-3 mm thick and 7-3 cm Eng. He stem from they are completely died and buttle, as an Us not. Collected strizemes and fertile regment, to see if they can be grown. The smaller granzer and Bulbostylis are dead, after 3 weeks without rain. The larger ones are flowering. The leguminous shribe and the Compositor, as well as a most curious labiate, leafters and with termina cones with verlapping scale-like Gracts, which when up and the coollar protouds. Vultures are rather commy. 12 seen in an at once. This is just about a month after to beginning of the see months dry season. It is said it le a very strong dry season, October on November through march or april.

is systemt in freezen I the trouverent and in the slightly incre reach street it, in - the text of a day commendation from Viler. with the frontested by In a lace the backley a cold. when he to the only The gar in the produced the way of the in the second of Licence Co. Janes Some War Cale the first them Ar- - - 1 11-4 Mr I am They I they They me to me the second industrial feet - - Alt - - - with a compared for a facility the state of the s Angelow your less thank on the conwith the same the same of the same to be to be were the thought were to be a control DECEMBER TEXT Dayoned line of from Board Alex Toyet eater try whilelen There trongs tree-by -1-11- weathered breaks, -11/16 your him your property of the Checien to the stand for it

Compression of the state of Paint The Later Control Lugareted 3 4 2 capacit Value Sugar Harmon 1811 Taman who indiger. Line House The Comment of the Commen it more than a remaining they Bridelin Contlinen (1) funed to berein Trade on commenter on garden Annything and the services, dans in Cay there , face- of haden lands. I stopped plant devices of several terfringed of organist frame lightly Sprant Area comment Morent Total Morent comme with solifye del- gime en Grosen bage with min. Showing - 3/2 - State of my the A R Capta Maria - ED --alle the medical the following was the terms 

80 of the fully falle at Charge of covering and indenti-- from the land of muster in the way 1 sentered much worth - - refre stateficter men is in addition, I having wilded a comment different - orforms forteet of ty with the facility of the second of the secon 16 Ptr The last harmy my we track, a comment of the former of from a wife to the total well should have green. Commence the state of the state of the topic of the terms 7 the first among - White - heavy of it - may have their laviner the property The sport according to the second Enotype and supetamen - fording - Tello de la compania del la compania de la compan Bookelly, ped I woulded Laber my to a marked quant such and the but I don't recover afrece deniel 1 de Marchon moult an made interests But y my any property of the Man the herne as a la thorner - comme assiste much the discilly, - amon in ( - m/). cathering small flocks. lender trusk ned afra the ordered of some cong of the line watted thechang il wild Musican in the will compression , the sex Combine budges loversting ation of Employed earlies when wigh war will a form a board form one planted a While 12-10 of an Bearing - tall Turkhow (2 m) will, More Technology ber the for can final fromen. It To water welge I smily hills have an abundance of the white cylindia Enthubia 1-15 m

86 Mrs 5 - Hill Station, just south of Jose is not 40749 Heavyotis occasional in thin soil in granite hill smay to it have plugs Your 5 - finished you - labore i lage terms and "in in header I wonter the has I'll the transport of reddish water is in the knobby grante - to the is a lower thought - severe tedger common in Sailly cultivated, The unsounding fields. become the market from the death, Many serious ensur on graged, idded in the sears and gully system. strately commended and for ingely wellive tow the same of the sa regular plater - grander comme gulley willed scattered grant front learns a wherefor, some first to · //cometening The a bit meine with front - The the and the second of the land soften running with and south. Tagetater of few fier Life of Recomp it is decided should reference in the of med and creek who trump watered, in worth done done the notreson et uto recipit of was pulled of you sandly Tourted lower and within 1 / See Control - Transaction distance without the my tommer welling to in the newtone ments 741 ( or my he per the eccept when to noting The stay Ta light of t retreate man of lacks a serve of solverful hatter What porterior to the street of the

in left there is no week. concentral a - - - - talal regarding and the warmy The transfer of the same of th a ward from the great within water the has no fire of the gra mental called and control of and - the property for Color to the tender of glassified. Then bried. Tilledan veryo willing there of they If the found, it has been for salaune end withering dendrile to the try with consideration from the intering at my the make - post of the state of the state of mannew fallen four St. Tables Carles almy nived ; +1 trabutions Vigetation between vous For the cities and a local frem Then went and often Literal The tose knowledge with my secret front to should recover of hadren Largery a soranne tra alleration cultivated and the doe begat all there - glidy fattern comment, y wastern, who with the later of the Mrin my continue and the second of mainway and of The state of the s dotte when something. grant the government our teacher and the first of good of the first of Servery Van Talander of Cong Fried Advent American mension Contract the second of the sec there are it for Server lest. Market Contract to the contract of in a ted was in a world to delice to life to They post to the form of the therman would shall the The state of the s y and done

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1157 7 - male 1 / -La sava postolis nie cintrat inded places show a latent larger about 05 m believe strength of and the for long soil hand the set of the There, who still, excelled its. Design Cheesen I'd a feather of Tours of the boy Tata to I'm that show it redder from soil gradualle mere wellow down ward me instrue. ( wath of city) Claration of cofficed land the trick, also of Lanewas in the the the The Herry English Tree ( 1 (1) market and the service of the service find whit wall around of a girly and a large and a field. ilside wall to affine fulds outside this 2 cattered portria + Prosofie perhaps & vo. tall spreading crowns. Descriptional Promise Martylifera. Vistant between weeld and applies, homes andre

fronter of the artento some the The Tree - is the market will be the world wentley wellingster in reighting greatly revised by in steady secult of here some in my 14-734 Styli 40 . Much wall thich at there is tapered to toll, 4-7 m. dergt. "my do walfase Trom Stal white hills a mercy 111-11/1 drigh, capped with invitarionally reals is here enjoyed, a fight the soft weathered note. Atter sit souls-worth server senest or men porta states Jan on the realtered Charles on the of Kans and of plain. , many masses to The .- ina-January Transplanting sending several engineers. Hetroproporcontatus on estroj set fee. Thorn Nachylefera Munn in old mudeity Hornoya olifer is training of few down fralth. franches.

112 1900 meterops of special s

metal.

the old town is a sprawling but crowded aggregation of mid hits mostly built rounded roofs and vertical care lily generale decrating and and come or top of the world. The are allowed not true, excitit from a scattering the giveral impression in totand duty The municipalities - ze were the lift direct of -Li-Elly -trac-1-2 cre - Mind Turelle and recent with Clothes .

an & Buncelona i muspal wheet me were to be flatamer shiped! Some planting in the her in a finite con a comment by the many war is the ellegeted organis 3-31 mm long with a remail, a lost, is all out ton them in last die onto opin at or I, while i 1011 Lenouth In funt of cathedral -Carriera squisele Superior winder or services histories in the to degree take the former but spendent and mother laste , and interest wellow Landy the same Magnotin grandefiles rightness (conserver - Cangrey to be brighter ander por 7, 1-6 4-1- C/-1-! cananing it a merops humilis ... accaena druec All regulers were differe Last by amount Washingtones felipera horand hartylipera reguestrum ( erecents)

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116 gradly the tomorrow Mr. 3 - flight from -may or marthe a thirty soul Midly dails research left with " non a regularional english , end his miantry . like bulling trees. but quite hays. Linestry one muchel stufus along sea by aupent ... 为专心 south slopes tare. a belt of small impact Ame terracing, but mally Jeen of Cut council trees, rather uninhabited west, laffearing grite trimmed. innel a winding ...... Mose and only in the a valley, rather mused ently 3.57 - ity of the airport 9.5 a town and norre will be see The alifest and city fine lown dechurant cultivation comes to the top of the beach. Spertacular welgs Or rule and walken tresting fill and The maguis 3:40 east and wint. I alley interested fields in flat bothered widges thatter your frame terminating in a large . Reng of otal & diff from valley dung course. Valley britting feeling planted! wither paperlated that endan south great surring maily worded, if with in physerecon distance I mense done to a left whater milyer were a col. alread, por so we upper to fund trong, growing. on higher peaks. for trace of fresh Theat execupments or aquil in harmen and terrace of neveral and on starped at place. 1. apparently It Cat along cours and wind and bed saliment sky bed. 5:56 willy sparsely vegetates and by delf carrying. indople and slopes. Mostly thenly world Fralk and of Confenses some frastern, home some freet of envery deep clift's dan, rocky clops

Loren 118 some of it inded Lily 25. Abopter : Enfrer study steps and iday traversons then which this is a war had in drusting constly day trans Level of toy to the form 11 11 a real brief way, brigh a palet in or to of enthrology - despit of over aleper a bid an intervaled or graze found would, brown. ween's very rough. 1 -150 Cernant Times - sllinger Principalory surpos, to estal. Flat walley with a - real 1 the waget to town, cultivated, with Visibilety son, budger flower ingetting set for worth Charles ton worded, fraklending onen. skofer vicom gentler, drie, and fellet arrand, my they have increased table how willer trans bout Fields Lower drovded on round - whitelite win in I me stope stopes here, Evently varientains Jul : 70 17/ meter this struly will But so harry so to have Ath closing through. all ditail Then densely wooded and a mental with the threads or trucky stopper, some stell 11:17/ appearing the graphity were much Will At ilso ridge was sing en et of strike ogte ( edder They become now margolla Courting generally - marthaman 1921 work hodry and Correley to thinky woodel A und On in Kelief, of 1-1 Leng reliefy lund mostly zery marchillands in more cultivated. Exathered rether minut. 166 VIII MAD. corred a nine feveral life inequely swill July on the Than Timble Tours, relatively gentle + 38 that ted corners staged they to sent I am becomes mugher.

Marin G. oung Ce.

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. Love apparently simul markland of that ground. · Morthura of the proportion of discharge Iron French To live Killy 24 th of ward mostly grane and seevening, highe or in west of mont releviduous office to stored forest. - Antha Kosa and - bully a morain of dry space small postelier of corred evergneen on a electolocadams fruit, service/enforcet and -FILE LOOKANIER. vicinara. gound. for the field. - Leattered large bales tills in distanted to west from Windre with To the or confers prominent in i varang on flat ansund mint is dictative the about Ma et Helena worded-but of places thinky is. free will parken worded respecially ravines, some Gealdsburg - Uneyouts and orchards or flot land.

124 1951 california. Loren G

Kursian River has some is offer, not - much, world will weart has a few vinter in evergeen oak frest, Conifer abundant. . Noch of Hoaldsburg is a high range - the lower il ofer with a morainer morded ravener potches of not many of Copy savanna, et the whole charact-covered, the lower wooded slopes are largely decidures the ravine, everycen. To west the hills are enered by reduvord. Orchards and vineyards it valley battoms and lovest elopes. Some oliver, on examile noth offenserwill shortly patches of Cloverdal Hills with Min forest, micidale advous ind ingreen ogels, patches if ridardod on hillsest of wad. figher her to east every

in change, lower with

o exiduous freit, chapanal. years very heavily grazed. I ber sloper and ridge tend to be gredominantly Dogwood Direction of the same persont in the me who went. and that is really the on puteline former generally thicke 1 - 1 Considerable a in ... chapmal on bright. ridges and ste find the of both, in pridominary generally. as immediately Worth of Ukrah on ton hills the frest becomes whense and questo mixed. - jerne often areas grave or savera 13 moth and Singles worth, settence trigles at some forcit then chipans, patribution of patelies of imperferent very inequalar - probably connants from togging north, toursand Willite much enigh times, mainly Prendoteinga. The down mainly deciderous value much Chradenchan. I'me Pinus monderrea.

Moth of willet an inequila mestro of decideron webs and mifen. Bull burns several miles mally. Anne freinly by conifes buert. Patches of arbutus. arbutus in fruit. Comes nuttelli; Turned reddish. of the Latin in creek beds. Open and troun both here not lost many Country gets grute grand, near myrale. redominantly conferen ford, some decidency Jahr. They does been logging in man wire held and the frest is matter mayer. Becomes very trushy open fred + some conifer. Lay low or the 1 in a flest walley le more tree and offen frield : 1lottome Confermers frest, and de de ... valion side

fer reallere. Longhan fir Moreproduction Ridge typesonsis - multine entirely puting 5-8 min, Taly 1 a Letter andostaphylos. Irver down a some remortante forest of rethroughour existing a lim to all it is town. ind. no soughastin reproduction. towing in waite time of sestrutus and Etheremotrus, somall men. 10-11 m. tall. Then almost price stand of arbutus. Jens Loging in 1950 nafter, and Musey week drainage on 35 m land - timber theft Ame seedling Douglas for on sears. The ensing in canyon bottom

There is a road out in the sloper along the ridge south of closer Creek side on the Elder Creek side gust below the creek, and down into Mixery Creek. The lower end, in misery beek is badly ended, one or two other spots on the steeper slopes are also giving trouble.

1959 Virginia 132 then and och nat. Part. 133 Dec. 12, 1959 - Hogbach mt with rocks protruding for frest, principally abundanly from ground. oak, mordy quereus fort thin and restally ruba, of low trees, full of stones. In place 6-10 m. tall, glat types a tupted ground layer and with very thice of Deschamping. The ary of the wing! of sichens abundant on trunke of older trees athin show langer and on rocks Floren of 3 ravers mostly of Kalmin south of here, tend of other shows. oden pluy one along! yours very well, world, of tree. 1040 m 40760 Parmelia on dead long. on tree trunks Umbilicais 71 Umbilicania 72 mores 73 (mas) in wels

134 Spenandrah vax Ph. 135 Vng mia Dec. 17- En Walfor sheller Rather Tim mised fruit on gentle welry S. frankers, J. milla Pinns Tryon, Tryon very He undergrowth. 740 m 40774 rich.) · . Parmelia on tiel trunks on rock 89 (lichen 90 ( mms) on base of her dechen on trush of accomelin

42

Tel 12 - 4501 Kily Farman Co. Amenbrat dissected edge of fotomax ravine Property of Mideven 17 and - la go houry about , and delivered and 2-3 acres of on one hill, swall frate les of fines virginiana Vaporate free ras 6. " acres faster. Paven vetwers has mixed with any must contien (2). 12mm strong handed, - trees tulif poliar, etc. 3 small fords in bottom of all vine "love medge not that water), sprima in here of avis, in the state of th from ted on the cace. the course partle. I get Total gare of grame in formagalian Objected. 31 years ago the Entire know was atmilited the denuter. Many her frantes, --Tulity Pinus verginians palis etc. have come in.

with and a joyn,

There across midely side is him grand (in the form)

Pennsah shings or a restrict the Trainer of the Market in the shings of and a couple of the shings of a second or couple of language or a price about a superior of language or a price about the second or couple of language or a price about the second or couple of language or a price about the second or price of the second or price or pric

I we large old Dices wire by

Some a sundray at 4:45 y. m.

now an nothing green - sound.

Jeb. 20 - Sall B. Cuff Petomari. oudour 6. Wood a na now thered plain and bluffs an loud old-gowth. entirely decid were. In Hat or willing land back of edge as therefore most of the over, regrowth of varying age. Il decidnous decept on a realtered fines virginians right near old cemetery. Some areas very low growth langely come. florida, rather spans. Scattered junifier seedling, of woods in flats. Taller tree on the ? at are mostly outer, som bielany. In Huffy, in navine, and on Aloro Alain Platanus is common, some Celtis. One presented woodpacer seen, several heard. Flow of canada geeze seen flying from of felles thought river down 150. Amall opersum .. Then at edge of words

seemed very slugges, anarled but hid not attempt a leave ser relief by tall did not seem much disturbed. when put down ian off to raving with 2 to and wells. The sparrows freeding inforture. I surry and red - yellied wortheder in 2 day of words. At the wash inging toward river. Lim is now in ground, expecial non month - found erust on surface. Said & be a fair deer ropulation in the and in any how strangattle wander from parture in words. in navine edges around solger of frest.

Virginia 150 1960 april 2 - I syline Drive gust south + Pressin alon m. 4. 60. Hamanetis - min common in thick to a gent north of Baldface Mx. Overer. 3) tamameli vigino no in this works in moderate stope april a Swift Run Jab. we slope. Words of Fagues, Juenes Magnotin Between etc. in valley along a mall Type aplection hyemal recomme 32 phagus virginiano very toral under tagus granout of april 17 - Hunter Valley, 2', mi n. of Oakton I near Hunter Valley Arrivaring ( or .) gantle slope fraing north with vegetation varying from mixed should savaluna to of mixed ofm sand of young I wimes servina sapling, ( x -5 m.), Juniperus verginiana (2-3(4) m.),

Luenandowh national 4151

greenish yellow.

-vord -runnel yelve.

strong white news,

some Pinus vraginiang (2-4 m.)
acer nuhum 2-4 m.) tangles
of Rubus argutus, and
closed mixed opass
some andropogn and
fridens dried from laid year

152 1960 Vinginia

april 17 - Amail affluent of Difficult Run

White out black out tuly. in bottom of valley with immderable patches of calmin Ezerpestum African + L. complanatur, some fair siged trees.

12 tof twin serul pin around north , slopes and boadwaters.

nthis pring best is an area of some are in which must of fre have been blown down toward east. sorra years body leaving attrict of softling. to fine and broad leap, some heer diracy 4-8 m, tall. I littly cutting some year back judging by a few fring strump, fair sign huen Naccinium in undergrowth, both high & low bury. Thimaphily marriate Mitchella common Pyrola

notundelota occasina Considerable Corners Horde weally Colony of immaghing undocted stream valley about

a hew frimes blown down. yesprodum very abundant ripotream.

In south side of right part fine worth are threber less undergrowth but some ned maple, myssa, comus, etc.

Lower south mode so purely decidrens, the boundary between them shay and almost at right angles to stream. Spril 17 - Bournan Place. Enalteden Br.

I young rather thick second growth of rates, buttonies, a few tall Populis 20 = m, tall, up to 10-15 cm olde. n shillow walleys fatcher of lex many understory 2 - 4 m. tall, stems white about 4cm. Thick in places lenge enough to touch, generally not so eless. Comes Love & milan. a dry navine originating in pates. / Mystichum common on framers. fox Thins out headward I we Rycofodium mylandrum mitcher I you rolundyour,

april 23 - hear tack (road to a warry) mant, after seen Ranuncius aboutions (.) Hedyotis caerulea 1. micery provide accombine laracacum vulgare (fl) anlennaria prantaginista Caytonia virginia Kalmia latisolia Tyeopolium observem fagus grantifolis Smilax rotundiforia Luzula 2/1. (2.) Violazi (1) Jaccinium atrococcum of Imelanchier sp. (1.) Sacilary virginians (fl) Heracium venosum Cornus florida (h.) symplocarpus footidus I'mur gersting anemalla thatictroides querus alva (many seedling, more on roadside than in works under other side of thee. but here many in relatively ofren area, very few in thicket) Vicia sp. (fl) Polystichum acrostichordes Smilar glanca Silene caroliniana (glandula) &

Fairfax Co. 156 1940 north of Centreville agril 24 drabis ving: tente (pol) (fl. Podophyllum (seltatum (6) (6) virginiana woods. Vopulus deltoides lex ofrace Trees 1-3 m. afrant, uf Khrolodendrum st. (6) To 15 (20) em. del. 10-12m. oul. Khus toxicodendron Unin Reniena Japonica Hantaria Kaciniata (ff) over much of ground. Cercis canadensis (ft) Considerable Junifelius glesoma hederacen (fl) virginiana my to half Vinus virginians the height of the frime. Van thenocisms quinquefolia Should scare, a few Vaccinium stamineum (b) econus florida to 1 m. tall, Varunum rumifolium le fassafras lo 1.5 m. Vaccinium vacillans very small co) celmus of, Vc Vrumus sertima (c) quercus of. In ace melum Vibunum pruniffing eaves of tree from just showing to 1/2 or even hay, tenbs & dwarf shrubs: expanded. 1-16 Chimaphila maculata le Vormes officinalis Tentilla (canadensis!) Vaccinium vacillans aprix 24 - I say Ho on V & Hedryotis caerules (ff) v a dahilleg millefolium of purple fincher. 3 mars, of gernale, seen eating grit from sand file on terrace. o Dances carola e galium dragaeum vulgare (1) ~ No tophyllum pellatum la Rosa carolina v a Amilar glanca Oxalis sp. o antennaria c antennain plantaginifolia

Fairfrax G.

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to free Juniperus briginiana 1-2 m. afrant up to 10 cm, dbh. 8 m. tall. Here Rhus topicodentes is much more abundant.

Then field with andropping nearly-invaded by Pinus ringiniana and Juniferus. Underlined herbs from pine freet also seen here.

another similar but denser patch of fine, with much less Living and seeming less distriber. Species seen here in list on M. 197.2 marked V. Jumperus much less abundant and smaller

Ranunculus abortivus (fl)
Prunella vulgaris
Asseyrum hypericrides
Gignostis
Potentilla simplex (fl)

1960 many an Penny. april 27 - Pennsylvania Knilvad Washington to Philadelphia at Washing ton the trees are practically fully Reafied out to except for the only, but are still a light bright bush green. The leave of the oaler still hang down, are still dull and worlly in appearand and purhaps half developed or less in sixel Comus florida Paulounia in bloom. in Thursdeystia not beceptibly different from

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Mary or - Park.

Men ori
Distiching flots.

Bate, late

Wan which came in auter 1934 hunisane -Rhisophora arout 8 m. tall and loem. diam. closed town his nather Carmbell, 1- and exert. and not abound ant near ed or . works most quite contiguous. tand onver us not we open, with med Porrelin et. Trees about 4 m. tail. Para dierocorners commen Ithen stands of thisotyling very dance small poles 6 m. mre mre mez stare's with sense Bruchia and ways Inen " ca : ca : in a smoot in , but thin The war to earn man is trunh, Small meadows of Brichia, Batio, etc.

## ETGIDAGGS Mational Park, Florida

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## ETGIGIAGOS National Park, Florida



### Everglades NATIONAL PARK

OPEN ALL YEAR

This southernmost tip of the Florida mainland was established as Everglades National Park on June 20, 1947, thus assuring the preservation of its unique biological features in their natural state for all time. Many people had contributed their time and efforts to accomplish this goal.

The park boundaries encompass more than 2,100 square miles of land and water. This vast wilderness, blending sea and sky in the distance, dips imperceptibly to the shallow waters of Florida Bay on the south and to the Gulf of Mexico on the west.

### Threshold to the Tropics

In effect, Everglades is a mosaic of many interesting things, each strongly influenced by the tropical climate. Plants of the Temperate Zone meet plants of the Torrid Zone; fresh water meets salt water; and land meets sea. The grasslands of the true Everglades stretch across the horizon. Clusters of trees, called hammocks, resemble islands in the open Everglades and among the pines. Following the shorelines and growing upon keys (islands) in open water, mangrove forests form almost impenetrable thickets.

Warmed by the sun and nourished by the waters, the area is biologically fertile, supporting many interrelated forms of plant and animal life under natural conditions. Outstanding among the features of the park are the rookeries of birds.

Park rangers will assist you and give you information on what to see and do during your visit. The park naturalist staff conducts programs and walks designed to give you a better understanding of the wildlife, geology, plants, and history of the Everglades country. Schedules of these interpretive services are available at all ranger stations.

The National Park System, of which this park is a unit, is dedicated to conserving the scenic, scientific, and historic heritage of the United States for the benefit and enjoyment of its people.

### The Winter Season

Weather is normally pleasant and clear, with very little rainfall. Temperatures are often described as "about like June up north," and people dress accordingly. However, brief cold snaps do occur occasionally, sometimes bringing strong northerly winds and possibly frost.

This dry season is the best time to see the abundant wildlife, which tends to concentrate in sloughs, lakes, and other water areas. Many of the large, spectacular wading birds—egrets, ibis, herons, and roseate spoonbills—nest in their rookeries during midwinter and early spring. Waterfowl and other bird migrants from the north are in the park area.

Practically all trees, shrubs, and other plants stay green all winter, although the grasses and sedges of the Everglades take on brownish hues. Fishing is good, as a rule, but it is variable. Boating is generally good, but waters may become rough during this season.

### The Summer Season

The majestic clouds of summer, though they may produce brief torrential showers, give a beauty to the landscape that you would miss in the winter. Wildlife is distributed over wide areas and is not so easily seen. Fishing is at its best, and the waters of the park are usually calmer than in winter. In the summer, you should bring insect repellant with you, for the pests can become bothersome.

### Overnight Accommodations, Picnicking, and Camping

Overnight accommodations in the park are limited; therefore, you should make reservations well ahead of your visit in order to insure having a place to stay. You may reserve your accommodations by writing to Everglades Park Co., Inc., either at Flamingo, Fla., or at 3660 Coral Way, Miami 45, Fla. Also, you may telephone this company at either Miami or Everglades, Fla.

You may picnic at Flamingo, where drinking fountains, tables, charcoal burners, and restrooms are available; in the Long Pine Key area, where there are tables and toilets; and at Nine Mile Pond, where only picnic tables are provided.

You may enjoy camping at an improved campground at Flamingo; or you may prefer the less developed surroundings at Long Pine Key. Camping space is obtained on a first-come first-served basis and cannot be reserved. You may camp in the back country, but you must first get a campfire permit at park headquarters or at any ranger station.

Housetrailers are permitted in the campgrounds; however, electric, water, and sewer hookups are not available.







Roseate spoonbills. Courtesy, F.S.N.B.

If you plan an extended boat trip into park waters, you should obtain the necessary charts before starting. It is well to consult a park ranger and indicate your proposed route. You may purchase U.S. Coast and Geodetic Survey charts from authorized dealers in Homestead, Miami, and Everglades.

Boats for sightseeing and charter boats for fishing go out from Flamingo and Everglades. These are carefully inspected for safety by both Coast Guard personnel and park rangers. Reservations are usually necessary during the peak of the winter season. Names and addresses of authorized operators of charter boats may be obtained at park headquarters.

### Food Service, Gasoline, and Miscellaneous Items

At Flamingo, you will find modern dining facilities and service stations for boats and cars. Also available at this newly developed area are boat rentals, bait, store supplies, and souvenirs.

A general-delivery post office is operated at Flamingo.

### Help Us Protect the Park

To accomplish our objectives of protecting and preserving the wilderness, and to leave Everglades undisturbed for the enjoyment of our own and future generations, we must have park rules and regulations.

Everglades National Park is a sanctuary for all wildlife. Recent years of protection have made the wild creatures lose much of their fear of man. Therefore, we ask that you please not throw rocks or in any way attempt to disturb the birds, alligators, or any form of wildlife. Hunting or the use of firearms is strictly prohibited. Fishing is permitted in accordance with State laws.

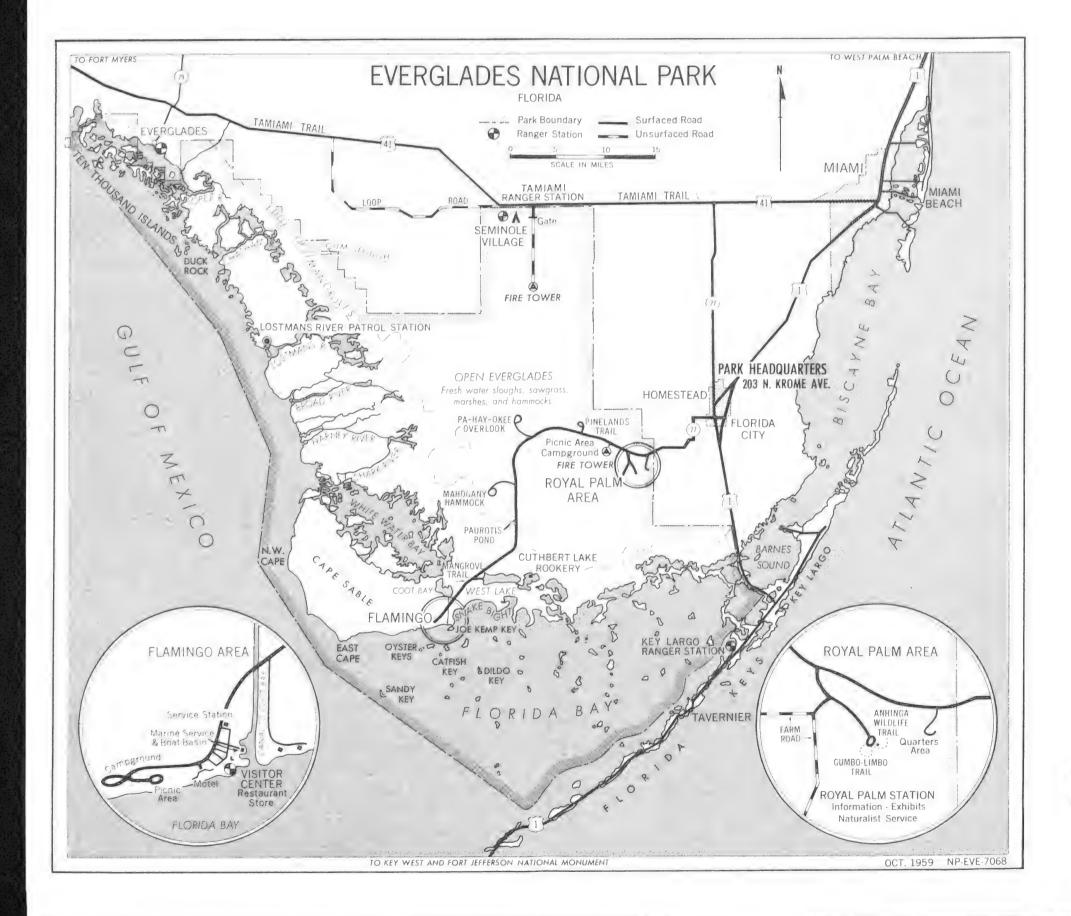
Trees, shrubs, airplants, orchids, and other plants must not be removed or disturbed—other visitors wish to see them, too.

### Speed Limit

For your safety and for the safety of the wild creatures, the speed limit in the park is 45 miles per hour. You'll find that the more leisurely you drive, the more you will enjoy the Everglades scene.

### Mission 66

Mission 66 is a program designed to be completed by 1966 which will assure the maximum protection of the scenic, scientific, wilderness, and historic resources of the National Park System in such ways and by such means as will make them available for the use and enjoyment of present and future generations. Tangible evidences of the progress being made under the program here at Everglades include the new road, camping facilities, and the development at Flamingo.



Self-guiding Trails, Exhibits, and Facilities Along the
Park Road

[Trails do not exceed 20 minutes walking time]

es from rance to urnosf			
2	Royal Palm area:  Royal Palm Visitor Center—exhibits, naturalist programs, restrooms.  Anhinga Trail—a wildlife trail.		
	Gumbo Limbo Trail—a jungle trail through tropical hardwood hammock.		
4	Long Pine Key area:  Campground—limited facilities.  Picnic area—limited facilities, picnic tables, toilets.		
6.5	Pinelands Traila pinewoods community trail.		
12.5	Pa-Hay-Okee—boardwalk and tower for panoramic view.		
19.5	Mahogany Hammock—elevated boardwalk into mahogany forest.		
24.5	Paurotis Pond—parking for view of rare palms.		
26.5	Nine Mile Pond—limited picnicking facilities.		
30.5	West Lake area:  Mangrove Trail—an elevated boardwalk into dense, tropical, mangrove swamp.  West Lake Pond—Cuthbert rookery boat trip (Feb.–May), waterfowl.		
38	Flamingo area:		
	Exhibits, naturalist programs, marina, sightseeing boats, restaurant, motel, service station, picnic area, campground.		

### Administration

Everglades National Park is administered by the National Park Service, U.S. Department of the Interior, with headquarters at 203 North Krome Avenue in the business district of Homestead, Fla. For further information, call in person or telephone or write the Superintendent, Box 275, Homestead, Fla.



UNITED STATES
DEPARTMENT OF THE INTERIOR

Fred A. Seaton, Secretary

NATIONAL PARK SERVICE Conrad L. Wirth, Director

U.S. GOVERNMENT PRINTING OFFICE: 1959—O-527192

# ETGIGGG Mational Park, Florida

Mary 7- Everglad is Not. Park. Mari sori-Distichiis lears, Batti, flats

Thank It which came in etter 931 buriane -Phinophora arout 8 m. Tall and leem. diam. Closed, town he nother Cumped, 1-0-m egra. seed no abundant near edger. not mod quite contiguous. tand morearus not her open, with new Layer of Batis, faccomie, I'mielin ety. Trees about 6 m. tall. Range blowdown, common other stands of Khizoling very derre small proces 6 m. Tall. moran unz stands with dense Brichia around lays. enen though can in amost close, but thin. Cillandria common is trunder. Small meadows of Orrichia, Batio ele.

Mannove trail Goard trail in dense 5-10 m. tall with. scattered avicennia (Kort Engles dence photos) acostichum common. Some low mixture. of Cladium and showing mangroves. Saw grass march tratiles along road embanliment Bidens pilosa var. Cynoden daitylm ic. much low manner sent - Physphora, with open water between chumps. Pacintus clumps on want just. Marsh with scattered ting mangroves. ( lasto! Large areas of Cladium drab green. Scattered smal Taxodium uy & 7 m. tal. A cattered small hammorles or patelos of shrubs, with dense undergrowth of small fan fralms (ferena) than pine land with saw grass on ort palmer May 3 - He Corenut grove - boat landing en share near Malviers jammer. In insquar mage of filled dand offer water and mangrove wany. no swamps are dominated by Rhizorina mangle, small trees 2-10cm dbh. 2-8 m, tal. crowded, spacing 03-3 m. anxing arrive onto gerning a lange about im. high, some nost, higher. somether also sending dans vertical worts from the hundres as vigh as 3 m. In lose swampe a x residered tree, or wir min and Caguncularia, both sending up numerous vertical finger-like knies a few indes kigh all over the ground around their bases. Nothing wi seeves o grow in the actual swamps. In the marine Conscarfus evertus Treis on shrubs of 2 from, a glation green one and a sericeon of, correba wife, and The feria populnea ( one iner in) are found, in place, in minerty

elso in the mangens are Julium of. Borrichia futicosa, thereign sortulacastam, Batis, faliconia, Paspalum Listichum (?), -y - ~ ~ pp. ( study or many in , etc. around Lack hig. Pandancy ectorius, school allefitien. Fieus sp. Jehrny erspillifoling and Coccololog unifers Myrome is 4. Kentaghum secundatur. are granted - un y 4 sig lemigolia. In manipore swamp the new are somewhat megularly dumped. Many redlings. Thany old wind thrown trunks tangled in the aerial mot Landward wong the road the mangrover become smaller and the regulation changes to a sent still principally Chizophora, 1-3 m. tall. still garther -toward the land this thins out, again arrow uneur mmnaly?) beamer anundant with The mangroves. Then - le Chizopina becomes

less abundant and the

Ragunaularia become abundant. The Juneus drops out and the sent becomes mue ine and sparse. Then we us an and reared for premising. irently bammer legins and estands is the drightway. Ins is on sughtly higher ground where the surfaces is a moderately megular one of a sportige-like volitie Sime sandstong. Here the vegetation is a granled, twisted low firest, 6-8 m. tall. with a mixture of broad way trees up to 3 dm aloh but mostly 6-12 cm. or smaller, spaced 1-2 m. upart, with a construction surface layer of note. The undergrowth is wederate, of sapling, and should sychotria Serverya Victoria? Engingete 1-2 m. Till sancery any bed dayer, only a jew tin my filen age of with a well. I be in elighytes

inande in more,) -in the trees. Aut -! ic VILVIUS. ensen is a common and conficuous tres. The aspect is of 4 in my tanget this we but ne may walk freeing twongh it in 2 small zamia is occasional. Satches of Officermen, sceasional l'anicum. fatal Corrobota heterophylla(?) andiria, common, aiso fuerus virginiano it 12 in edges. On slight, higher ground a noth this are wear of spen of Rhun copalling, and various other should with scattered fueren virginiana and Pinns. this grades to open pinelands. your, with scattered strubs, palm, and fine trees, and to then him Greet with grans. emple offen to be on a ven trad beach ridge. this intleast locally consolidated

Dade Co. 171 Florida 170 1900 May 8 - matheson Hammock Coral gables, south of Miami 40834 Psychoting should, m. talf; blowers white, common in mesoplylie everyeen frest 35 Englishing suping? common on fill of arushed volitie limestone. shoul 2 m, tall, selvey-silly. 36 Cono confres sectus common edges of mangrave vegetation. clump 2 m. ball. 37 Phragmite, occasional on limeston fell Showers tall; flowers. Gragnant, white. 38 Kandia common in often fine frest. 39 Hedystis often sandy pine frest

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